## **CLAIMS**

1. It inclied comprise	1 1.	A method co	mprisin
------------------------	------	-------------	---------

- in a cell of a cellular wireless communication system,
- 3 altering the SIR of at least one user in a sector of the cell by
- 4 temporarily reducing transmissions on a forward link in at least
- 5 one other sector of the cell or a sector in another cell in accordance
- 6 with a pattern.
- 1 2. The method of claim 1 in which the pattern is organized in
- 2 a sequence of time slots and the pattern defines which of the
- 3 sectors has transmissions turned on or off in each of the time slots.
- 1 3. The method of claim 1 in which the pattern comprises a
- 2 predetermined fixed pattern that is repeated as time passes.
- 1 4. The method of claim 1 also including
- determining a current state of transmissions in at least one
- 3 of the sectors of the cell or a sector in another cell, and
- 4 setting the pattern dynamically based on the determined
- 5 state of the transmissions.
- 1 5. The method of claim 4 in which the current state of
- 2 transmissions includes the scheduling status of transmissions in
- 3 neighboring sectors in the cell or in one or more other cells
- 1 6. The method of claim 5 in which the current state of
- 2 transmissions includes the transmission rates of some neighbor
- 3 sectors.

Attorney Docket 12144-009001

- 1 7. The method of claim 4 in which the current state of
- 2 transmissions includes the next time slot usage.
- 1 8. The method of claim 4 in which the current state of
- 2 transmissions includes the forward link SIR.
- 1 9. The method of claim 4 in which the current state of
- 2 transmissions includes user location.
- 1 10. The method of claim 4 in which the current state of
- 2 transmissions includes a fairness setting.
- 1 11. The method of claim 4 in which the current state of
- 2 transmissions includes an application type of user or QoS.
- 1 12. The method of claim 1 in which temporarily reducing the
- 2 transmissions comprises turning transmissions on and off in
- 3 selected sectors according to the pattern.
- 1 13. The method of claim 12 in which the pattern includes
- 2 turning off transmissions in other sectors more frequently to help
- 3 users having lower communication rates.
- 1 14. The method of claim 1 also including arranging a
- 2 frequency reuse factor of one or higher in the wireless system.
- 1 15. The method of claim 1 in which the wireless system
- 2 comprises 1xEV-DO.
- 1 16. Apparatus comprising
- 2 wireless transmission facilities for more than one sector of
- 3 a cell, and

- 4 control facilities connected to the wireless transmission 5 facilities and configured to alter the SIR of at least one user in a 6 sector of the cell by temporarily reducing transmissions on a 7 forward link in at least one other sector of the cell or a sector in 8 another cell in accordance with a pattern. 1 17. The apparatus of claim 16 in which the control facilities 2 comprise sector controllers for controlling the wireless 3 transmission facilities for the respective sectors. 1 18. A medium bearing intelligence configured to enable a 2 machine to effect the actions that comprise: 3 in a cell of a cellular wireless communication system, 4 altering the SIR of at least one user in a sector of the cell by 5 temporarily reducing transmissions on a forward link in at least 6 one other sector of the cell or a sector in another cell in accordance 7 with a pattern. 1 19. Apparatus comprising 2 a sector controller adapted to control transmissions in a 3 sector of a cell of a wireless communication system and to 4 communicate with other sector controllers in the cell or in one or 5 more other cells to coordinate the turning on and off of 6 transmissions in at least one of the sectors based on the
- 8

7

transmission state in at least another one of the sectors.